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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-12-21-03** **Date: 23-12-17**
Customer	:	Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.
Customer Reference	:	EE(Project)/YnkZone/Wo/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-12-17
Sample ID No	:	2017-12-21-03/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	21-12-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	996	996	10.0	90.0	80-100
26.5	1686	2682	26.8	73.2	55-90
9.5	1292	3974	39.7	60.3	35-65
4.75	1490	5464	54.6	45.4	25-55
2.36	1764	7228	72.3	27.7	20-40
0.425	1666	8894	88.9	11.1	10-25
0.075	896	9790	97.9	2.1	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	24.53%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-12-26-04** **Date: 28-12-17**
Customer	:	Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.
Customer's Reference	:	EE(Project)/YnkZone/Wo/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-04/01
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	27-12-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.395	546	670	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	564	685	19.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-01-08-02**	**Date: 12-01-18**
Customer	:	Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01	
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.	
Customer's Reference	:	EE(Project)/YnkZone/Wo/79/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-01-18	
Sample ID No	:	2018-01-08-02/01	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	08/01/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.52	1.376	4477	87.5	19.5	18.2	22.7
2	Cover Slab-2	75.52	100.51	1.392	4478	84.1	18.8	17.5	21.8
3	Cover Slab-3	75.51	100.52	1.382	4477	88.9	19.9	18.5	23.1

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-26-04** **Date: 29-12-17**
Customer	:	Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.
Customer's Reference	:	EE(Project)/YnkZone/Wo/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-04/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	27-12-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.65	–
2	Finess by Air permeablity method (m^2/kg, Min)	286.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-26-04** **Date: 24-01-18**
Customer	:	Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.
Customer's Reference	:	EE(Project)/YnkZone/Wo/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-04/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	27-12-17

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-26-04** **Date: 29-12-17**
Customer	:	Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.
Customer's Reference	:	EE(Project)/YnkZone/Wo/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-04/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	256	256	1.7	98.3	90-100
3	20 mm	5533	5789	38.6	61.4	30-70
4	10 mm	4665	10454	69.7	30.3	10-35
5	4.75 mm	4233	14687	97.9	2.1	0-5
6	Pan	313	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-26-04** **Date: 29-12-17**

Sample ID No : 2017-12-26-04/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.21	_

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-26-04** **Date: 29-12-17**
Customer	:	Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.
Customer Reference	:	EE(Project)/YnkZone/Wo/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-04/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2635	2880	57.6	42.4	25-55
4	4.75 mm	1780	4660	93.2	6.8	0-10
5	Pan	340	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-26-04** **Date: 29-12-17**

Sample ID No : 2017-12-26-04/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-12-26-04** **Date: 29-12-17**
Customer	:	Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01
Agency	:	Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.
Customer's Reference	:	EE(Project)/YnkZone/Wo/79/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-17
Sample ID No	:	2017-12-26-04/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	26-12-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	167	396	39.6	60.4	30-70	55-90	75-100	90-100
5	600 micron	187	583	58.3	41.7	15-34	35-59	60-79	80-100
6	300 micron	177	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	148	908	90.8	9.2	0-10	0-10	0-10	0-15
8	Pan	92	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-12-26-04** **Date: 29-12-17**

Sample ID No : 2017-12-26-04/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.65	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-01-05** **Date: 19/02/2017**

Customer : Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01

Agency : Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.

Customer's Reference : EE(Project)/YnkZone/Wo/79/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-18

Sample ID No : 2018-01-01-05/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	12/02/2017	19/02/2017	150.32 X 150.35 X 150.32	22601	8.133	386.5	17.1	16.8
2	M20 Concrete	M20	12/02/2017	19/02/2017	150.30 X 150.39 X 150.31	22604	8.156	382.0	16.9	
3	M20 Concrete	M20	12/02/2017	19/02/2017	150.34 X 150.32 X 150.30	22599	8.142	372.9	16.5	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-01-05** **Date: 12/03/2017**

Customer : Assistsnt Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Providing cement concrete roads to Inspector Ramaiah road and Surabhi Layout at Ward No.01

Agency : Sri.K.Achuta Murthy, No.07, 1st 'C' Main Road, Geleyan balaga, Mahalakhmipura, Bangalore-560086.

Customer's Reference : EE(Project)/YnkZone/Wo/79/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-18

Sample ID No : 2018-01-01-05/02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	12/02/2017	12/03/2017	150.33 X 150.30 X 150.27	22595	8.402	508.4	22.5	23.2
2	M20 Concrete	M20	12/02/2017	12/03/2017	150.31 X 150.29 X 150.30	22590	8.413	524.1	23.2	
3	M20 Concrete	M20	12/02/2017	12/03/2017	150.35 X 150.20 X 150.27	22583	8.378	537.5	23.8	

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